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(12) ABSTRACT OF INVENTION

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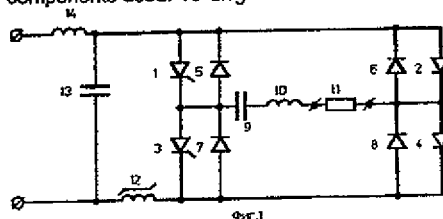
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(54) DC-TO-AC CONVERTER

(57) Abstract:

FIELD: thyristor frequency converters for inductive heating of metals. SUBSTANCE: connected to input leads through filter choke is DC diagonal line incorporating filter capacitor and connected through nonlinear choke to inverting thyristor bridge with back diodes. Switching capacitor, choke, and load are connected across diagonally opposite pair of ac terminals of this bridge. Connection of one nonlinear choke across diagonally opposite pair of DC terminals between point of connection of rectifier and that of DC diagonal line to thyristor-diode bridge

fully eliminates asymmetry of inverting bridge currents due to dispensing with four nonlinear chokes on inverting bridge arms. EFFECT: reduced mass and size, improved operating reliability and effectiveness of components used. 13 dwg



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